



AUSTRALIAN CATHOLIC UNIVERSITY

## ICT CURRICULUM & TEACHING 2

<b>Task:</b>	<i>Personal Project</i>
<b>Aim:</b>	<i>To use existing knowledge about the System Development Cycle from Project management as well as knowledge on building a multimedia website, in order to create a multimedia system</i>
<b>Due:</b>	<i>TBA</i>

### General Instructions:

- This assignment contributes to **25%** of your overall mark.
- No extensions will be granted.
- Project must be submitted in a folder with the following materials:
  - This assignment sheet
  - Title page
  - Table of contents
  - Project documentation
  - Your entire website on a CD or on a portable USB drive

Outcomes assessed	Highly Developed	Developed	Developing	Not Developed
<i>H1.1</i> Applies and explains an understanding of the nature and function of information technologies to a specific practical situation				
<i>H1.2</i> Explains and justifies the way in which information systems relate to information processes in a specific context.				
<i>H5.1</i> Justifies the selections and use of appropriate resources and tools to effectively develop and manage projects				
<i>H5.2</i> Assesses the ethical implications of selecting and using specific resources and tools, recommends and justifies the choices				
<i>H7.1</i> Implements and explains effective management techniques				
<i>H7.2</i> Uses methods to thoroughly document the development of individual and team projects				

### Overview of the Project

You have been hired by an organisation as a contractor to design a website to promote their services or products. The organisation understands that this task would be far too broad if you were to promote their entire services / products base. However, in order to do any justice for the organisation, you are still expected to choose one to two aspects / products that you feel would best portray the organisation.

You are free to choose the topic for your project. The following are some examples:

- Hotels
- Car company
- Game company
- Education and training
- Government organisations
- Sports and recreation

Note: Documentation is an important aspect of developing an information system. You are required to keep a detailed logbook / journal which describe the work that has been undertaken.

### Instructions

This project would be split into five separate phases. You are to maintain a logbook or diary which describes in detail the work you have done for each of these phases.

#### ***Understanding the Problem***

For this part you will need to:

- Write a requirement report, which would need to include the following sections:
  - Statement of the problem – for this section you will need to restate the problem you were presented with. You will also need to name the organisation you are working for and what they do.
  - Preliminary investigation – for this section you will need to collect data to understand the problem. To collect this data, you will need to identify your client and “speak” with them. This could be done in any way you choose. Examples could be questionnaire or interview.
  - Requirements – for this section you will need to have an outline of the aims and objectives of the multimedia system and how it could help promote the company or organisation. You will also need to have an overview of the new system.
  - Prototype – this is your first working model of the website. You should include screenshots with explanations. Ensure that you show the prototype with your teacher, so you can get advice on how you can improve upon it for the final product.

#### ***Planning***

For this part you will need:

- Write a feasibility report, which gives a recommendation of the proposed solution based on the following four criteria: Economic feasibility, Technical feasibility, Schedule feasibility and Organisational feasibility
- Create a Gantt chart, which shows the timeframe in which you would complete your project

### ***Designing***

For this part you will need to:

- Create a storyboard
- Create a data flow diagram
- Create your website. Ensure that it meets the following criteria:
  - A homepage
  - A navigation menu
  - At least four media items (e.g. text, numbers, hypertext / hyperlink, images, audio, and animation or video)
  - Bibliography
  - Ensure that each page is consistent with one another, legible and presentable

### ***Implementing***

For this part, you will need to:

- Write an implementation plan which covers the following:
  - Discuss the training needs for the participants of the new system.
  - Give a recommendation of the conversion method required.
- Develop two test cases, which will test different components of the website

### ***Testing, Evaluating and Maintaining***

For this part, you will need to assess the multimedia system. The following parts must be covered:

- Create an evaluation form, ask a peer to test the website and fill out the form
- Evaluate their suggestions and discuss whether their suggestions are suitable or not suitable for your website
- Conclude with a summary, which discusses methods of maintaining the system and the social and ethical issues that need to be considered, after the system is completed

### ***Your Logbook or Journal***

In the last 5 minutes of every lesson briefly describe the work completed in the lesson.

Your logbook or journal should document the work you have done for all the phases of the project you went through. You should also record any problems you have encountered and what you did to solve them. It would also be in your best interest to record discussions you had with your teacher as well.

You are to conclude the journal with a very brief report on the success of the project.

## **Marking Guidelines**

### **Understanding the Problem**

**Outcomes Assessed: H1.1, H1.2, H7.1**

<b>Criteria</b>	<b>Mark</b>
Creates a comprehensive document which covers all of the required sections in-depth.	9-10
Creates an adequate document which covers all or most of the required sections.	7-8
Creates a basic document that which covers some of the required sections.	4-6
Creates a poor document that does not or barely cover the required sections.	1-3

### **Planning**

**Outcomes Assessed: H1.1, H1.2, H7.1**

<b>Criteria</b>	<b>Mark</b>
Creates a comprehensive document which covers each of the four listed criteria in-depth. An appropriate Gantt chart is included.	9-10
Creates an adequate document that covers each of the four listed criteria. A Gantt chart is included.	7-8
Creates a basic which briefly covers each of the four listed criteria. Either a poor or no Gantt chart is present.	4-6
Creates a poor document which does not or barely covers each of the four listed criteria.	1-3

### **Designing**

**Outcomes Assessed: H1.1, H5.2**

<b>Criteria</b>	<b>Mark</b>
Creates a comprehensive storyboard and data flow diagram with clear explanations.	9-10
Creates an adequate storyboard and data flow diagram with some explanations	7-8
Creates a basic storyboard and data flow diagram.	4-6
Creates a poor storyboard and data flow diagram.	1-3

### **Implementing**

**Outcomes Assessed: H1.1, H1.2, H7.1**

<b>Criteria</b>	<b>Mark</b>
Creates a comprehensive document that discusses training needs for participants in-depth and recommends an appropriate conversion method. Two appropriate test cases are included.	9-10
Creates an adequate document that discusses training methods for participants and recommends a conversion method. Two appropriate test cases are included.	7-8
Creates a basic document that briefly discusses a plan, which mentions training methods and/or conversion method(s).	4-6
Creates a poor document that displays a plan of some sort.	1-3

**Testing, Evaluating and Maintaining**

**Outcomes Assessed: H1.1, H1.2, H7.1**

Criteria	Mark
Creates a comprehensive document that displays an in-depth level of understanding of the testing, evaluating and maintaining phase.	9-10
Creates an adequate document that displays a proficient level of understanding of the testing, evaluating and maintaining phase.	7-8
Creates a basic document that displays a satisfactory level of understanding of the testing, evaluating and maintaining phase.	4-6
Creates a poor document, which has little to no relevance of the testing, evaluating and maintaining phase.	1-3

**The Website**

**Outcomes Assessed: H1.1, H5.1**

Criteria	Mark
Creates a comprehensive website that meets all of the specified needs. All of the required criteria are fulfilled.	18-20
Creates an adequate website that meets most of the specified needs. Most of the criteria are fulfilled.	12-17
Creates a basic website that meets some of the specified needs. Some of the criteria are fulfilled.	6-11
Creates a poor website that may or may not meet the needs of the user. Does not meet criteria at all.	1-5

**Additional Deliverable – Project Diary**

**Outcomes Assessed: H1.1, H1.2, H7.1, H7.2**

Criteria	Mark
Creates a comprehensive diary that logs all work and decisions made over a period of time.	9-10
Creates an adequate diary that logs most work and decisions made over a period of time.	7-8
Creates a basic diary that logs the some work and decisions made over a period of time.	4-6
Creates a poor diary that logs some work over a period of time.	1-3

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Teacher's comment:

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